ELSEVIER

Journal of Materials Processing Technology 166 (2005) 465–466

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Author Index of Volume 166

Aggarwal, S., 205
Akata, H.E., 128
Al-Qureshi, H.A., 135
Al-Sulaiman, F.A., 364
Altınbalık, T., 128
Amorim, F.L., 411
Argyropoulos, V., 345
Aslan, E., 44
Axinte, D.A., 398
Axinte, M., 398

Bargui, H., 330
Baseer, M.A., 364
Berstad, T., 247
Bhushan, B., 205
Biswas, K., 107
Brabazon, D., 430
Briceno, J., 50

Çan, Y., 128
Casalino, G., 1
Chakrabarty, J., 218
Che-Haron, C.H., 188
Chen, C.-C.A., 230
Chen, F.K., 218
Chen, Z., 183
Cheng, L., 183

Dachang, K., 243
Danckert, J., 150
De Filippis, L.A.C., 1
Di, H., 359
Ding, W.-J., 193
Dumitrescu, A., 337
Duo, G., 183

El-Mounayri, H., 50

Fu, H., 449
Fuchi, W., 224

Galiotto, A., 135
Ganesan, G., 423
Gheorghe, M., 337
Gindy, N.N.Z., 398
Gordon, S., 321
Günay, M., 44
Gurrappa, I., 256

Hamade, R.F., 86
Hao, Q., 449
Hillery, M.T., 321
Hong, J., 199
Hopperstad, O.S., 247
Huang, J.-S., 230

Ismail, F., 86

Jalham, I.S., 392
Jawaid, A., 188
Jiang, W., 286
Jianguo, Y., 405

Kang, C.G., 173
Kang, S., 9
Karthikeyan, R., 423
Kashyap, B.P., 268, 279
Katsube, N., 205
Kim, B.M., 372
Kim, D.H., 372
Kim, K.H., 372
Kiritani, M., 313
Kishawy, H., 50
Klein, A.N., 135
Konishi, M., 313
Korkut, İ., 44
Krishnamurthy, R., 455
Kritmanorot, M., 398
Kulkarni, M.S., 294
Kwon, W.T., 9

Lademo, O.-G., 247
Lang, L., 150
Langseth, M., 247
Lazim, D., 116
Lee, H.C., 372
Lee, J.H., 173
Li, C., 381
Li, J., 381, 449
Li, S., 449
Li, Z., 381
Liu, C.H., 230
Liu, H.-M., 237
Liu, L., 449
Liu, X., 359
Liu, X.Y., 79
Looney, L., 430
Lu, B., 199
Lu, W., 224
Luan, B., 79
Ludovico, A., 1
Luo, J., 440

Makoto, M., 405
Manesh, H.D., 163
Mao, X.-M., 193
Matsugi, K., 313
Maximov, J.T., 144
Molian, P., 286
Murty, S.V.S.N., 279

Nageswara Rao, B., 268
Naher, S., 430
Nair, R., 286
Narayana Murty, S.V.S., 268
Narayanasamy, K., 455
Neagu, C., 337
Nemes, J.A., 116
Nielsen, K.B., 150

Oh, J.K., 173
Okazaki, K., 71
Orhan, N., 63
Özdemir, N., 63

Pai, B.C., 423
Park, J.S., 9
Peng, L.-M., 193
Pośpiech, J., 417

Qu, J., 440
Qunbo, F., 224

Ragai, I., 116
Raghukandan, K., 423
Raju, H.P., 455
Rao, B.N., 279
Reuge, N., 15

Saran, A., 71
Scattergood, R.O., 440
Şeker, U., 44
Sekhon, G.S., 307
Selvaduray, G., 30
Sheikh, A.K., 364
Shih, A.J., 440
Sidhom, H., 330

Elsevier B.V.
doi:10.1016/S0924-0136(05)00693-X

Singamneni, S.B., 98
Singh, R., 307
Srinivasa, Y.G., 455
Subash Babu, A., 294

Taheri, A.K., 163
Tang, Y., 199
Tourki, Z., 330
Trigwell, S., 30

Vignoles, G.L., 15

Wang, F., 387
Wang, G., 359
Wang, K.L., 345
Wang, Y.-R., 237
Weingaertner, W.L., 411

Xiao, P., 183
Xu, K.-D., 193

Yanagisawa, O., 313
Yang, F., 71
Ye, H.Z., 79
Yongchao, X., 243
Youn, S.W., 173
Yu, C., 243

Zhang, L., 183
Zhang, X., 359
Zhang, X.-L., 237
Zhao, J., 387
Zhao, Z., 381
Zhou, H., 199

ELSEVIER

Journal of Materials Processing Technology 166 (2005) 467–472

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Subject Index of Volume 166

Abrading
A new technique for the fabrication of graphite EDM electrodes, 199
Aggressive drilling
A case for aggressive drilling of aluminum, 86
AISI 304
Identification of flow instabilities in the processing maps of AISI 304 stainless steel, 268
AISI P20 tool steel
The influence of generator actuation mode and process parameters on the performance of finish EDM of a tool steel, 411
AlN
In situ synthesis of AlN in Mg–Al alloys by liquid nitridation, 79
Al–SiC MMC
Development and assessment of a new quick quench stir caster design for the production of metal matrix composites, 430
Aluminium
Prediction of plastic instability in extruded aluminium alloys using shell analysis and a coupled model of elasto-plasticity and damage, 247
Aluminum alloy
Investigation into hydrodynamic deep drawing assisted by radial pressure. Part II. Numerical analysis of the drawing mechanism and the process parameters, 150
Aluminum
A case for aggressive drilling of aluminum, 86
Anisotropic plane sheet
Influence of loading path on the plastic instability strain in anisotropic plane sheets, 218
Anisotropy
Prediction of plastic instability in extruded aluminium alloys using shell analysis and a coupled model of elasto-plasticity and damage, 247
Appropriate materials
Cathodic protection of cooling water systems and selection of appropriate materials, 256
Artificial neural network (ANN)
A comparative study of some network approaches to predict the effect of the reinforcement content on the hot strength of Al–base composites, 392
Artificial neural networks
Optimization of CNC ball end milling: a neural network-based model, 50
Development of processing map for 6061 Al/15% SiC_p through neural networks, 423
Associative plasticity
Comparison of various plasticity models for metal powder compaction processes, 107
Auger electron spectroscopy
Effects of welding on the passive oxide film of electropolished 316L stainless steel, 30
Axisymmetric analysis
On the mechanics of cold die compaction for powder metallurgy, 135

Bar drawing
Design and analysis of direct cold drawing of section rods through a single die, 345
Bearing area fraction
Characteristics of extrude honed SG iron internal primitives, 455
Belt polishing
Investigations on belt polishing of heat-resistant titanium alloys, 398
Boundary element techniques
A mixed solution for the three-dimensional temperature distribution in turning inserts using finite and boundary element techniques, 98

C++
Development of a high-speed CNC cutting machine using linear motors, 321
CAD/CAM
Design and analysis of direct cold drawing of section rods through a single die, 345
Carbide tool
The effect of machining on surface integrity of titanium alloy Ti–6% Al–4% V, 188
Carrier medium
Characteristics of extrude honed SG iron internal primitives, 455
Casting
In situ synthesis of AlN in Mg–Al alloys by liquid nitridation, 79
Cathodic protection
Cathodic protection of cooling water systems and selection of appropriate materials, 256
Chamber pressure
Hydromechanical deep drawing of superalloy cups, 243
Chip shape
Fundamentals on face milling processing of straight shafts, 337
Cladding
Theoretical and experimental investigation of cold rolling of tri-layer strip, 163
CNC cutting machine
Development of a high-speed CNC cutting machine using linear motors, 321
CNC spinning
An experimental study on spinning of taper shape on tube end, 405
Cold forming
Design and analysis of direct cold drawing of section rods through a single die, 345
Compaction density
On the mechanics of cold die compaction for powder metallurgy, 135

Elsevier B.V.
doi:10.1016/S0924-0136(05)00694-1

Compaction
On the mechanics of cold die compaction for powder metallurgy, 135
Compliance
The polishing of molds and dies using a compliance tool holder mechanism, 230
Composite
In situ synthesis of AlN in Mg–Al alloys by liquid nitridation, 79
Containerless
Dual-frequency electromagnetic confinement of liquid aluminum, 449
Continuous casting
Managing quality in continuous casting process using product quality model and simulated annealing, 294
Cooling water systems
Cathodic protection of cooling water systems and selection of appropriate materials, 256
Cu–Cr alloy
Property and thermal stability of in situ composite Cu–Cr alloy contact cable, 193
Cutting forces
Experimental investigation of the effect of cutting tool rake angle on main cutting force, 44
Cutting kinematics
Fundamentals on face milling processing of straight shafts, 337
Cylindrical cups
Hydromechanical deep drawing of superalloy cups, 243

Damage
Prediction of plastic instability in extruded aluminium alloys using shell analysis and a coupled model of elasto-plasticity and damage, 247
Deflection
Calculation method for deformations of stand and rolls to obtain products with small dimension of tolerances, 417
Die design
Design and analysis of direct cold drawing of section rods through a single die, 345
Die service life
Estimation of die service life against plastic deformation and wear during hot forging processes, 372
Diphasic alumina
Novel method of adding seeds for preparation of mullite, 183
Draw-bending experiments
Anisotropy and springback in draw-bending of stainless steel 410: experimental and numerical study, 116
Dynamic material model
Development of processing map for 6061 Al/15% SiC_p through neural networks, 423
Dynamometer
Experimental investigation of the effect of cutting tool rake angle on main cutting force, 44

ECAE
Finite element simulation of equal channel angular extrusion, 71
Edge quality
Finite element analysis of the magnetic tape slitting process, 205
EDM
A new technique for the fabrication of graphite EDM electrodes, 199
The influence of generator actuation mode and process parameters on the performance of finish EDM of a tool steel, 411
Abrasive micro-blasting to improve surface integrity of electrical discharge machined WC–Co composite, 440
Efficiency parameter
On the hot working characteristics of 2014 Al–20 vol% Al_2O_3 metal matrix composite, 279
Elastic–plastic material
Comparison of various plasticity models for metal powder compaction processes, 107
Electric energy
Erratum to "Joining of spheroidal graphite cast iron to stainless steel by impact-electric current discharge joining", 313
Electrode
A new technique for the fabrication of graphite EDM electrodes, 199
Electromagnetic confinement
Dual-frequency electromagnetic confinement of liquid aluminum, 449
Electromagnetic forming
The effect of tube length on magnetic pressure in tube electromagnetic bulging, 381
Electropolished 316L stainless steel
Effects of welding on the passive oxide film of electropolished 316L stainless steel, 30
Eutectic carbide
Spheroidizing kinetics of eutectic carbide in the twin roll-casting of M2 high-speed steel, 359
Expert system
PROPLAN: an expert system for optimal planning of sheet metal operations, 307
Extrude honing
Characteristics of extrude honed SG iron internal primitives, 455

Face milling
Fundamentals on face milling processing of straight shafts, 337
FCC array
An estimation of three-dimensional finite element crystal geometry model for the strength prediction of particle-reinforced metal matrix composites, 173
FCD450
Erratum to "Joining of spheroidal graphite cast iron to stainless steel by impact-electric current discharge joining", 313
FE simulation
A new method of manufacture of hypocycloidal polygon shaft joints, 144
Finish machining
The influence of generator actuation mode and process parameters on the performance of finish EDM of a tool steel, 411
Finite element analysis
Finite element analysis of the magnetic tape slitting process, 205
Finite element method
Comparison of various plasticity models for metal powder compaction processes, 107
Finite element modeling
Anisotropy and springback in draw-bending of stainless steel 410: experimental and numerical study, 116
Finite element simulation
Investigation into hydrodynamic deep drawing assisted by radial pressure. Part II. Numerical analysis of the drawing mechanism and the process parameters, 150
Finite element
A mixed solution for the three-dimensional temperature distribution in turning inserts using finite and boundary element techniques, 98
Flat end milling and ball end milling
Optimization of CNC ball end milling: a neural network-based model, 50
Flatness control
Transfer matrix method of flatness control for strip mills, 237
FLD
Prediction of plastic instability in extruded aluminium alloys using shell analysis and a coupled model of elasto-plasticity and damage, 247

Flow instabilities
Identification of flow instabilities in the processing maps of AISI 304 stainless steel, 268
Flow stress
Development of processing map for 6061 Al/15% SiC_p through neural networks, 423
Fluid mechanics
Modeling of isobaric–isothermal chemical vapor infiltration: effects of reactor control parameters on a densification, 15
Force measurement
The polishing of molds and dies using a compliance tool holder mechanism, 230
Forming limit diagrams
The kinetic of induced martensitic formation and its effect on forming limit curves in the AISI 304 stainless steel, 330
Friction welding
Microstructure and mechanical properties of friction welded joints of a fine-grained hypereutectoid steel with 4% Al, 63
Friction
Microstructure and mechanical properties of friction welded joints of a fine-grained hypereutectoid steel with 4% Al, 63
Functionally graded molds
Functionally graded mold inserts by laser-based flexible fabrication: processing modeling, structural analysis, and performance evaluation, 286

GA-BP model
Transfer matrix method of flatness control for strip mills, 237
Gear like elements
A study of lateral extrusion of gear like elements and splines, 128
Green density
On the mechanics of cold die compaction for powder metallurgy, 135
Group IV carbides
Effect of group IV elements on the cutting characteristics of Ti(C,N) cermet tools and reliability analysis, 9

Heat-affected zone
Effects of welding on the passive oxide film of electropolished 316L stainless steel, 30
Heat-resistant titanium alloys
Investigations on belt polishing of heat-resistant titanium alloys, 398
Heavy-shafts
Fundamentals on face milling processing of straight shafts, 337
HEX array
An estimation of three-dimensional finite element crystal geometry model for the strength prediction of particle-reinforced metal matrix composites, 173
High feed
A case for aggressive drilling of aluminum, 86
High speed machining
Development of a high-speed CNC cutting machine using linear motors, 321
High speed
A case for aggressive drilling of aluminum, 86
High-speed steel
Spheroidizing kinetics of eutectic carbide in the twin roll-casting of M2 high-speed steel, 359
Hot forging
Estimation of die service life against plastic deformation and wear during hot forging processes, 372
Hot workability
Development of processing map for 6061 Al/15% SiC_p through neural networks, 423
Hydrodynamic deep drawing assisted by radial pressure
Investigation into hydrodynamic deep drawing assisted by radial pressure. Part II. Numerical analysis of the drawing mechanism and the process parameters, 150
Hydroforming
Investigation into hydrodynamic deep drawing assisted by radial pressure. Part II. Numerical analysis of the drawing mechanism and the process parameters, 150
Hypereutectoid steel
Microstructure and mechanical properties of friction welded joints of a fine-grained hypereutectoid steel with 4% Al, 63

Image analysis
Development and assessment of a new quick quench stir caster design for the production of metal matrix composites, 430
Impact energy
Erratum to "Joining of spheroidal graphite cast iron to stainless steel by impact-electric current discharge joining", 313
In situ composite
Property and thermal stability of in situ composite Cu–Cr alloy contact cable, 193
In situ particle formation
In situ synthesis of AlN in Mg–Al alloys by liquid nitridation, 79
M index
Property and thermal stability of in situ composite Cu–Cr alloy contact cable, 193
Induction heating
Dual-frequency electromagnetic confinement of liquid aluminum, 449
Instability condition
On the hot working characteristics of 2014 Al–20 vol% Al_2O_3 metal matrix composite, 279
Instability
Finite element simulation of equal channel angular extrusion, 71
Prediction of plastic instability in extruded aluminium alloys using shell analysis and a coupled model of elasto-plasticity and damage, 247
Intelligent deep drawing
Parameter identification by neural network for intelligent deep drawing of axisymmetric workpieces, 387
Internal friction
On the mechanics of cold die compaction for powder metallurgy, 135

Joining
Erratum to "Joining of spheroidal graphite cast iron to stainless steel by impact-electric current discharge joining", 313

Kinetic transformation
The kinetic of induced martensitic formation and its effect on forming limit curves in the AISI 304 stainless steel, 330
Kinetics
Spheroidizing kinetics of eutectic carbide in the twin roll-casting of M2 high-speed steel, 359
Knowledge-base
PROPLAN: an expert system for optimal planning of sheet metal operations, 307

Laser
Functionally graded mold inserts by laser-based flexible fabrication: processing modeling, structural analysis, and performance evaluation, 286
Lateral extrusion
A study of lateral extrusion of gear like elements and splines, 128
Limit drawing ratio
Influence of loading path on the plastic instability strain in anisotropic plane sheets, 218
Linear motors
Development of a high-speed CNC cutting machine using linear motors, 321

Liquid and semi-solid processing
Development and assessment of a new quick quench stir caster design for the production of metal matrix composites, 430
Liquid metal
Dual-frequency electromagnetic confinement of liquid aluminum, 449
Liquid nitridation
In situ synthesis of AlN in Mg–Al alloys by liquid nitridation, 79
LM algorithm
Parameter identification by neural network for intelligent deep drawing of axisymmetric workpieces, 387
Loading path
Influence of loading path on the plastic instability strain in anisotropic plane sheets, 218
Loss functions
Managing quality in continuous casting process using product quality model and simulated annealing, 294

Machining accuracy
Fundamentals on face milling processing of straight shafts, 337
Machining methods
A new method of manufacture of hypocycloidal polygon shaft joints, 144
Machining power consumption
Use of electrical power for online monitoring of tool condition, 364
Magnesium
In situ synthesis of AlN in Mg–Al alloys by liquid nitridation, 79
Magnetic pressure
The effect of tube length on magnetic pressure in tube electromagnetic bulging, 381
Magnetic tape
Finite element analysis of the magnetic tape slitting process, 205
Materials processing
Modeling of isobaric–isothermal chemical vapor infiltration: effects of reactor control parameters on a densification, 15
Mechanical and physical characterization
A technical note on the mechanical and physical characterization of selective laser sintered sand for rapid casting, 1
Metal cutting
A mixed solution for the three-dimensional temperature distribution in turning inserts using finite and boundary element techniques, 98
Metal matrix composite (MMC)
A comparative study of some network approaches to predict the effect of the reinforcement content on the hot strength of Al–base composites, 392
Metal matrix composites
An estimation of three-dimensional finite element crystal geometry model for the strength prediction of particle-reinforced metal matrix composites, 173
Development of processing map for 6061 Al/15% SiC_p through neural networks, 423
Micro-blasting
Abrasive micro-blasting to improve surface integrity of electrical discharge machined WC–Co composite, 440
Microstructure
Development and assessment of a new quick quench stir caster design for the production of metal matrix composites, 430
Modeling
Modeling of isobaric–isothermal chemical vapor infiltration: effects of reactor control parameters on a densification, 15
A comparative study of some network approaches to predict the effect of the reinforcement content on the hot strength of Al–base composites, 392
Mould
A new technique for the fabrication of graphite EDM electrodes, 199
Mullite
Novel method of adding seeds for preparation of mullite, 183
Mullitization
Novel method of adding seeds for preparation of mullite, 183
Multilayer strip
Theoretical and experimental investigation of cold rolling of tri-layer strip, 163

NC Machining
Use of electrical power for online monitoring of tool condition, 364
Neural network
Parameter identification by neural network for intelligent deep drawing of axisymmetric workpieces, 387
Neuro-fuzzy
A comparative study of some network approaches to predict the effect of the reinforcement content on the hot strength of Al–base composites, 392
Numerical analysis
Modeling of isobaric–isothermal chemical vapor infiltration: effects of reactor control parameters on a densification, 15
Numerical simulation
The effect of tube length on magnetic pressure in tube electromagnetic bulging, 381

Online monitoring
Use of electrical power for online monitoring of tool condition, 364
Out of roundness
Characteristics of extrude honed SG iron internal primitives, 455

Parameter identification
Parameter identification by neural network for intelligent deep drawing of axisymmetric workpieces, 387
Particle swarm optimization (PSO)
Optimization of CNC ball end milling: a neural network-based model, 50
Plasma jet
3D simulation of the plasma jet in thermal plasma spraying, 224
Plastic deformation
Finite element simulation of equal channel angular extrusion, 71
Estimation of die service life against plastic deformation and wear during hot forging processes, 372
Plastic forming
An experimental study on spinning of taper shape on tube end, 405
Plastic instability
Influence of loading path on the plastic instability strain in anisotropic plane sheets, 218
Polishing of molds and dies
The polishing of molds and dies using a compliance tool holder mechanism, 230
Polishing parameters
The polishing of molds and dies using a compliance tool holder mechanism, 230
Polygon shaft joints
A new method of manufacture of hypocycloidal polygon shaft joints, 144
Porous media
Modeling of isobaric–isothermal chemical vapor infiltration: effects of reactor control parameters on a densification, 15
Powder compaction
Comparison of various plasticity models for metal powder compaction processes, 107
Powder metallurgy
On the mechanics of cold die compaction for powder metallurgy, 135
Powder particles
On the mechanics of cold die compaction for powder metallurgy, 135

Process analysis
Functionally graded mold inserts by laser-based flexible fabrication: processing modeling, structural analysis, and performance evaluation, 286
Process control
Design and analysis of direct cold drawing of section rods through a single die, 345
Process modeling
Optimization of CNC ball end milling: a neural network-based model, 50
Process optimization
Optimization of CNC ball end milling: a neural network-based model, 50
Managing quality in continuous casting process using product quality model and simulated annealing, 294
Process parameters
The influence of generator actuation mode and process parameters on the performance of finish EDM of a tool steel, 411
Process plan
PROPLAN: an expert system for optimal planning of sheet metal operations, 307
Processing map
On the hot working characteristics of 2014 Al–20 vol% Al_2O_3 metal matrix composite, 279
Development of processing map for 6061 Al/15% SiC_p through neural networks, 423
Processing maps
Identification of flow instabilities in the processing maps of AISI 304 stainless steel, 268
Product quality model
Managing quality in continuous casting process using product quality model and simulated annealing, 294

Quasi-coaxial nozzle
Functionally graded mold inserts by laser-based flexible fabrication: processing modeling, structural analysis, and performance evaluation, 286

Radial basis networks (RBN)
Optimization of CNC ball end milling: a neural network-based model, 50
Radial extrusion
A study of lateral extrusion of gear like elements and splines, 128
Radial-base function (RBF)
A comparative study of some network approaches to predict the effect of the reinforcement content on the hot strength of Al–base composites, 392
Rake angle
Experimental investigation of the effect of cutting tool rake angle on main cutting force, 44
Rapid casting
A technical note on the mechanical and physical characterization of selective laser sintered sand for rapid casting, 1
Rapid prototyping
A new technique for the fabrication of graphite EDM electrodes, 199
Reduced dimension tolerances
Calculation method for deformations of stand and rolls to obtain products with small dimension of tolerances, 417
Reinforcement
A comparative study of some network approaches to predict the effect of the reinforcement content on the hot strength of Al–base composites, 392
Reliability
Effect of group IV elements on the cutting characteristics of Ti(C,N) cermet tools and reliability analysis, 9
Roll compaction
Comparison of various plasticity models for metal powder compaction processes, 107
Rolls
Calculation method for deformations of stand and rolls to obtain products with small dimension of tolerances, 417

SC array
An estimation of three-dimensional finite element crystal geometry model for the strength prediction of particle-reinforced metal matrix composites, 173
Seeds
Novel method of adding seeds for preparation of mullite, 183
Selective laser sintering
A technical note on the mechanical and physical characterization of selective laser sintered sand for rapid casting, 1
SEM
The kinetic of induced martensitic formation and its effect on forming limit curves in the AISI 304 stainless steel, 330
Characteristics of extrude honed SG iron internal primitives, 455
Sheet anisotropy
Anisotropy and springback in draw-bending of stainless steel 410: experimental and numerical study, 116
3D simulation
3D simulation of the plasma jet in thermal plasma spraying, 224
Simulated annealing
Managing quality in continuous casting process using product quality model and simulated annealing, 294
Simulation
Finite element simulation of equal channel angular extrusion, 71
Sintering
Novel method of adding seeds for preparation of mullite, 183
Solid-state welding
Microstructure and mechanical properties of friction welded joints of a fine-grained hypereutectoid steel with 4% Al, 63
Spheroidizng
Spheroidizing kinetics of eutectic carbide in the twin roll-casting of M2 high-speed steel, 359
Spline forming
A study of lateral extrusion of gear like elements and splines, 128
Springback
Anisotropy and springback in draw-bending of stainless steel 410: experimental and numerical study, 116
Stainless steel 410
Anisotropy and springback in draw-bending of stainless steel 410: experimental and numerical study, 116
Stir casting
Development and assessment of a new quick quench stir caster design for the production of metal matrix composites, 430
Strain rate sensitivity parameter
On the hot working characteristics of 2014 Al–20 vol% Al_2O_3 metal matrix composite, 279
Strip rolling
Transfer matrix method of flatness control for strip mills, 237
Superalloy hydromechanical deep drawing
Hydromechanical deep drawing of superalloy cups, 243
Surface integrity
The effect of machining on surface integrity of titanium alloy Ti–6% Al–4% V, 188
Abrasive micro-blasting to improve surface integrity of electrical discharge machined WC–Co composite, 440
Surface roughness
Characteristics of extrude honed SG iron internal primitives, 455
SUS304
Erratum to "Joining of spheroidal graphite cast iron to stainless steel by impact-electric current discharge joining", 313

Taguchi method
The polishing of molds and dies using a compliance tool holder mechanism, 230
Taper shape
An experimental study on spinning of taper shape on tube end, 405
Tempering parameter
Estimation of die service life against plastic deformation and wear during hot forging processes, 372
3D thermal elasto-plastic analysis
An estimation of three-dimensional finite element crystal geometry model for the strength prediction of particle-reinforced metal matrix composites, 173
Thermal fatigue
Functionally graded mold inserts by laser-based flexible fabrication: processing modeling, structural analysis, and performance evaluation, 286
Thermal fields
A mixed solution for the three-dimensional temperature distribution in turning inserts using finite and boundary element techniques, 98
Thermal gradient
Functionally graded mold inserts by laser-based flexible fabrication: processing modeling, structural analysis, and performance evaluation, 286
Thermal plasma spraying
3D simulation of the plasma jet in thermal plasma spraying, 224
Thermal softening
Estimation of die service life against plastic deformation and wear during hot forging processes, 372
Thermal stability
Property and thermal stability of in situ composite Cu–Cr alloy contact cable, 193
Ti(C,N) cermet
Effect of group IV elements on the cutting characteristics of Ti(C,N) cermet tools and reliability analysis, 9
Titanium alloy
The effect of machining on surface integrity of titanium alloy Ti–6% Al–4% V, 188
Tool geometry
Fundamentals on face milling processing of straight shafts, 337
Tool life
Effect of group IV elements on the cutting characteristics of Ti(C,N) cermet tools and reliability analysis, 9
Tool wear
Use of electrical power for online monitoring of tool condition, 364
Transfer matrix
Transfer matrix method of flatness control for strip mills, 237
Transport processes
Modeling of isobaric–isothermal chemical vapor infiltration: effects of reactor control parameters on a densification, 15
Tri-layer strip rolling
Theoretical and experimental investigation of cold rolling of tri-layer strip, 163
Tube end
An experimental study on spinning of taper shape on tube end, 405
Tube forming
An experimental study on spinning of taper shape on tube end, 405
Tube length
The effect of tube length on magnetic pressure in tube electromagnetic bulging, 381
Twin roll strip casting
Spheroidizing kinetics of eutectic carbide in the twin roll-casting of M2 high-speed steel, 359

Upper bound method
Theoretical and experimental investigation of cold rolling of tri-layer strip, 163
Upper bound
A study of lateral extrusion of gear like elements and splines, 128
2014–20 vol% Al_2O_3 particle reinforced composite
On the hot working characteristics of 2014 Al–20 vol% Al_2O_3 metal matrix composite, 279

Wear
Estimation of die service life against plastic deformation and wear during hot forging processes, 372

Workpiece surface finish/integrity
Investigations on belt polishing of heat-resistant titanium alloys, 398

X-Ray dispersing energy
The kinetic of induced martensitic formation and its effect on forming limit curves in the AISI 304 stainless steel, 330

Yield function
Comparison of various plasticity models for metal powder compaction processes, 107
Yld96
Prediction of plastic instability in extruded aluminium alloys using shell analysis and a coupled model of elasto-plasticity and damage, 247